

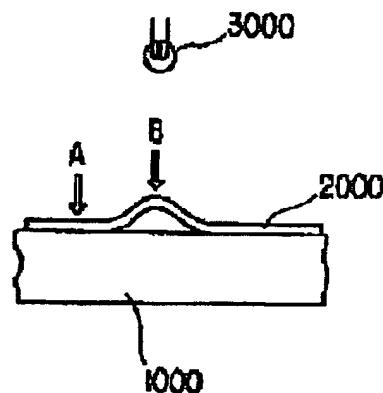
INSPECTION METHOD FOR DETERIORATION OF PAINTED FILM AND ITS INSPECTION DEVICE

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Abstract of JP6341965

PURPOSE: To remotely measure the deterioration of a painted film without influence of weather or time by remotely thermally exciting a painted film to be inspected, and measuring its temperature distribution in noncontact state. **CONSTITUTION:** A deteriorated painted film B is inferior in thermal conductivity to a sound painted film A on account of air lying between the painted film and the surface of a part. Thus, immediately after turning on a heating infrared lamp 3000, the temperature rise of the film B is quicker than that of the film A, and after heating for a long time, the films A, B become the same in their temperatures. When the lamp 3000 is turned off in this state, the temperature of the film A lowers quicker than that of the film B. Temperature difference between the films A, B can therefore be caused by heating the surface of the film 2000 for a short time, and temperature distribution on the surface of the film 2000 can be measured in noncontact state by an InSD infrared detector and the like having detecting wave length in 3 to 6μm band. Heat excitation and measurement of the temperature difference distribution are interlocked in this way, and temperature distribution image is freeze-recorded under a condition where the temperature difference is the maximum, and the lamp 3000 is automatically turned off. The position and area of the deteriorated painted film within a picture plane can be on-line computed by taking a freeze-image as an object.



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